# ADT-OH

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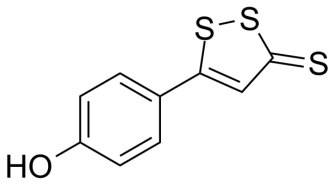
|---|---|---|---|
| **Cat. No.:** | HY-109582 | | |
| **CAS No.:** | 18274-81-2 | | |
| **Molecular Formula:** | $C_9H_6OS_3$ | | |
| **Molecular Weight:** | 226.34 | | |
| **Target:** | Apoptosis | | |
| **Pathway:** | Apoptosis | | |
| **Storage:** | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 125 mg/mL (552.27 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 4.4181 mL | 22.0907 mL | 44.1813 mL |
| | 5 mM | 0.8836 mL | 4.4181 mL | 8.8363 mL |
| | 10 mM | 0.4418 mL | 2.2091 mL | 4.4181 mL |

Please refer to the solubility information to select the appropriate solvent.

**In Vivo**

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (9.19 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (9.19 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

ADT-OH is a hydrogen sulfide-releasing donor. ADT-OH induces apoptosis and inhibits the development of melanoma in vivo by upregulating FADD. ADT-OH has the potential for the research of cancer diseases[1].

## REFERENCES

[1]. Cai F, et al. ADT-OH, a hydrogen sulfide-releasing donor, induces apoptosis and inhibits the development of melanoma in vivo by upregulating FADD. Cell Death Dis. 2020;11(1):33.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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